

## GT3W Multi-Function Timers(Sequence Type) **INSTRUCTION SHEET**

Read this instruction sheet to make sure of correct operation before starting installation, operation, maintenance, and inspection of the GT3W series timers. The end user should keep this instruction sheet for future reference.

#### **•TIME SPECIFICATIONS**

Time Specification Code: 1			Time Specification Code: 3			
Time Range Selector	Scale	Time Range	Time Range Selector	Scale	Time Range	
1S		0.1sec - 1sec	1S		0.1sec - 3sec	
10S	0-1	0.3sec - 10sec	1M	0-3	3sec - 3min	
10M		15sec - 10min	1H		3min - 3hours	
1S	0-6	0.1sec - 6sec	1S		0.6sec - 30sec	
10S		1sec - 60sec	1M		36sec - 30min	
1M		6sec - 6min	1H	0-30	36min - 30hours	
10M		1min - 60min	4011		6hours - 300hours	
1H		6min - 6hours	10H			

\*The Scale is interlocked and replaced with the Time Range Selector.

The time range is calibrated at its maximum time scale, therefore it is desirable to use the timer at a setting as close to its maximum time scale as possible for accurate time delay. For a more accurate time delay, adjust the control knob by measuring the operating time with a instrument before application.

#### **•GENERAL SPECIFICATIONS**

GENER	IAL SPE		ATIONS			
Operation System			Solid-state CMOS circuit			
Operation Type			Multi-Mode			
Time Range			1: 0.1sec to 6hours, 3: 0.1sec to 300hours			
Pollution Do	egree		2 (IE60664-1)			
Over voltag	ge category		III (IE60664-1)			
Rated Ope	rational	AF20	100-240V AC(50/60Hz)			
Voltage		AD24	24V AC(50/60Hz)/24V DC			
Voltage To	lerance	AF20	85-264V AC(50/60Hz)			
		AD24	20.4-26.4V AC(50/60Hz)/21.6-26.4V DC			
Disengagin Voltage	g value of Ir	nput	Rated Voltage × 10% minimum			
Range of a Temperatu	mbient Ope re	rating	-10 to +50°C (without freezing)			
	mbient Stor		-30 to +70°C (without freezing)			
Range of R	Relative Hun	nidity	35 to 85%RH (without condensation)			
Air Pressur	е		80kPa to 110kPa (Operating)			
			70kPa to 110kPa (Transport)			
Reset Time	)		60msec maximum			
Repeat Err	or		±0.2%, ±10msec*			
Voltage Err	or		±0.2%, ±10msec*			
Temperatu	re Error		±0.6%, ±10msec*			
Setting Erro	or		±10% maximum			
Insulation F	Resistance		100MΩ minimum (500V DC)			
Dielectric Strength			Between power and output terminals: 2000 V AC, 1 minute Between contacts of different poles: 2000 V AC, 1 minute Between contacts of the same pole: 750 V AC, 1 minute			
Vibration R	esistance		10 to 55Hz amplitude 0.75mm			
			2 hours in each of 3 axes			
Shock Resistance			Operating extremes: 98m/sec² (Approx. 10G) Damage limits: 490m/sec² (Approx. 50G) 3 times in each of 3 axes			
Degree of Protection			IP40 (enclosure), IP20 (socket) (IEC60529)			
Power	AF20 100V A					
Consum- ption		C/60Hz				
	AD24(AC/D	C)	1. 8VA/0. 9W			
Mounting Position			Free			
Outline Dimensions			40H × 36W × 70. 0D mm			
Weight (Ap	prox.)		72g			
* **						

<sup>\*</sup> The value of the error over a preset time applies the value of which or the larger one

### ●APPLICABLE STANDARD

Safety standard UL508, CSA C22.2 No.14, IEC61812-1, EN61812-1 EMC IEC61812-1, EN61812-1

LWC IEGOTOTZ-1, ENGIGIZ-1			
Electrostatic Discharge		level 3 Contact±6kV, Air±8kV	IEC61000-4-2 EN61000-4-2
Electromagnetic Field		level 3 10V/m, AM 80%, 80M-1000MHz	IEC61000-4-3 EN61000-4-3
Fast Transient/Burst		level 3 Power Supply: ±2kV	IEC61000-4-4 EN61000-4-4
Surge	AF20	level 3 Power Supply: Line to Line ±1.0kV Line to Ground ±2.0kV	IEC61000-4-5 EN61000-4-5
	AD24	level 2 Power Supply: Line to Line ±0.5kV Line to Ground ±1.0kV	
Radiated Emission		Group 1 Class A	CISPR 11 EN55011

#### TYPES

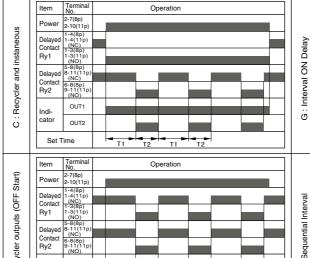
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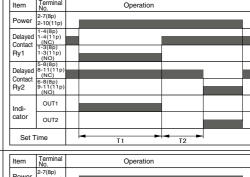
Operation Mode	Туре	Time Speci-	Rated Voltage Code	Output	Contact	Type No.	
		fication Code				8-pin Type	11-pin Type
A: Sequential Start						GT3W-A11AF20N	GT3W-A11EAF20N
B: On-delay with course and fine							GT3W-A11EAD24N
C: Recycler and instaneous		1: 0.1sec -	AF20: 100 to 240V AC	3A, 240V AC	Delayed SPDT	GT3W-A13AF20N	GT3W-A13EAF20N
D: Recycler outputs (OFF Start)	GT3W-A *1 *2 *3 N	6hours 3: 0.1sec - 300hours  See the Time specification	AD24: 24V AC(50/60Hz)/ 24V DC	5A, 120V AC/30V DC (Resistive Load)	+ Delayed SPDT	GT3W-A13AD24N	GT3W-A13EAD24N
E: Recycler outputs (ON Start)						GT3W-A31AF20N	GT3W-A31EAF20N
F: Interval ON						GT3W-A31AD24N	GT3W-A31EAD24N
G: Interval ON Delay						GT3W-A33AF20N	GT3W-A33EAF20N
H: Sequential Interval		for details.				GT3W-A33AD24N	GT3W-A33EAD24N

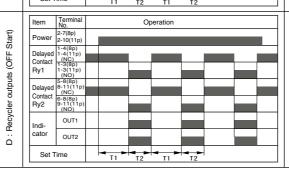
\*1 The sign of the time specification T1 enters

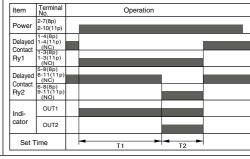
\*2 The sign of the time specification T2 enters.

OPE	ERATION CHARTS  *3 The specification sign of Rated \	oltage Code enters.	
MODE	Operation chart	MODE Operation chart	
A : Sequential Start	Terminal   Operation	Item   Terminal   Operation	
n-delay with course and fine	Item	Item   Terminal   Operation	

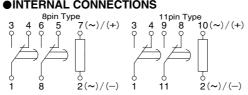








## **•INTERNAL CONNECTIONS**



<b>CONTA</b>	CIRAIIN	IGS		
Allowable C	ontact Power	960VA/120W		
Allowable V	oltage	250V AC/150V DC		
Allowable C	urrent	5A		
Maximum po operating fre		1800 cycles per hour		
Rated Load		1/8HP, 240V AC		
		3A, 240V AC (Resistive)		
		5A, 120V AC/30V DC (Resistive)		
Conditional Short Circuit		Fuse 5A, 250V		
Life	Electrical	100,000 op. minimum (Resistive)		
	Mechanical	20,000,000 op. minimum		

#### Safety Precautions

- Special expertise is required to use the Electronic Timer.

  All Electronic Timer modules are manufactured under IDEC's rigorous quality control system, but users must add a backup or fail safe provision to the control system using the Electronic Timer in applications where heavy damage or personal injury may be caused in case the Electronic Timer should fail.
- Install the Electronic Timer according to instructions described in this instruction sheet and the catalog.
  Make sure that the operating conditions are as described in the catalog. If you are uncertain about the specifications, contact IDEC in advance.
  In this instruction sheet, safety precautions are categorized in order of importance to Warning and Caution.



Warning Notices are used to emphasize that improper operation may cause sever personel injury or death.

- Trun power off to the Electronic timer before starting
- installation, removal, Wiring, maintenance, and inspection on the Electronic Timer. Failure to turn power off may cause electrical shocks or fire hazard.

  Emergency stop and interlocking circuits must be configured outside the Electronic timer. If such a circuit is configured inside the Electronic Timer, failure of the Electronic timer may cause disorder of control system or accidents.



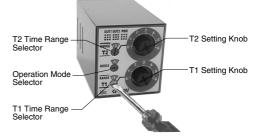
Caution notices are used where inattention might cause personal injury or damage to equipment.

- The Electronic Timer is designed for installation in equipment. Do not install the Electronic Timer outside equipment.
   Install the Electronic Timer in environments described in this instruction sheet and the catalog. If the Electronic Timer is used in places where the Electronic Timer is subjected to high-temperature, high-humidity, condensation, corrosive gases, excessive vibrations, and excessive shocks, then electrical
- shocks, fire hazard, or malfunction will result.

  Use an IEC60127-approved fuse and circuit breaker on the power and output line outside the Electronic Timer.
- Do not disassemble, repair, or modify the Electronic Timer.
  When disposing of the Electronic Timer, do so as an industrial waste

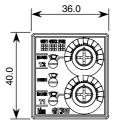
# **•SWITCH SETTING**

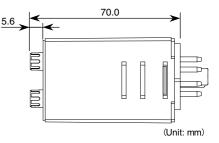
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- (1) The switches should be securely turned using a flat screwdriver 4mm wide maximum. Note that incomplete setting may cause malfunction. The switches, which do not turn infinitely, should not be turned beyond the
- (2) Since changing the setting during timer operation may cause malfunction, power should be turned off before changing the setting.

### **ODIMENSIONS**







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